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## (54) PRODUCTION OF POLYOLEFIN

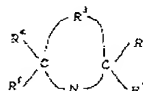
### (57)Abstract:

PURPOSE: To obtain a polyolefin excellent in heat resistance and light fastness, by polymerizing a 3C or higher  $\alpha$ -olefin in the presence of additives such as an antioxidant, an ultraviolet absorber and an aliphatic carboxylic acid metal salt and a specified highly active catalyst.

CONSTITUTION: A catalyst is prepared by combining (A) a solid catalyst component consisting essentially of Mg, a halogen, titanium and an electron donor with (B) a trialkoxyaluminum and (C) a compound selected from among a silicon compound of formula I (wherein R1 and R2 are each a hydrocarbon and n is 0, 1 or 2), an aromatic carboxylate ester and a nitrogen-containing compound of formula II (wherein R3 is a hydrocarbon and R4, R5, R6 and R7 are each H or a hydrocarbon). A 3C or higher  $\alpha$ -olefin (e.g., propylene) is polymerized with the aid of said catalyst in the presence of additives selected from among an antioxidant, an ultraviolet absorber and an aliphatic carboxylic acid salt to obtain the aimed polyolefin.



I



II

## LEGAL STATUS